

**ABSTRACT OF THE DISCLOSURE**

A reactor for the gasification of carbon-containing fuels, residues and waste by an oxygen-containing oxidizing agent in a reaction space designed as a fly stream reactor, at pressures of between ambient pressure and 80 bar, preferably between ambient pressure and 30 bar, the reaction space contour being delimited by a refractory lining within a pressure casing, 5 wherein the temperature of the pressure casing can be regulated, the pressure casing having cooling ducts affixed to an outer surface thereof.